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UTILITY **PATENT APPLICATION TRANSMITTAL**

First Named Inventor or Application Identifier

Herold, J., et al

Attorney Docket No.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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Complete if Known						
Application Number	4					
Filing Date						
First Named Inventor	Herold, J., et al					
Examiner Name						
Group / Art Unit						
Attorney Docket No.	236.7					
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METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)
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Name (Print/Type) Joseph Page	Registration No. (Attorney/Agent) 35,311 Telephone 619 702 4471
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STATEMENT CLAIMING SMA (37 CFR 1.9(f) & 1.27(b))IND		Docket Number (Optional) 236.7
Applicant, Patentee, or Identifier:	Herold, J., et al	
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Signature of inventor	Signature of inventor	Signature of inventor
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Jeffrey Herold		
NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
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In the United States Patent and Trademark Office

Applicants Jeffrey Herold and Brian Tostado

5 Title: Eyewear Frame with Recessed Portion

Specification for a Letters Patent

BACKGROUND OF THE INVENTION

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Field

The field of the inventions described herefollowing may best be characterized as eyewear for protection of eyes from the sun and more specifically eyewear having high quality lenses with a flip-up feature.

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Prior Art

Eyewear design, and in particular sunglasses type eyewear, receives considerable attention with regard to improvements and perfection. This may be due to the sensitive nature of human vision and strong need for clear vision in performance of daily activity including sports.

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Even casual observers will recall a great plurality of sunglasses types each being configured with various function in mind. One type of sunglasses made particularly popular by professional athletes includes those commonly and herein known as 'flip-up' type sunglasses. A flip-up sunglasses may typically have darken lenses in a frame which pivots from a first position in front of a user's eyes to a second position which leaves the eyes with a view clear of the lenses. These are very popular with baseball players who are often charged with having to look into shadows at one instant while having to look into direct sunlight at another. Without entirely removing sunglasses from ones face, a player can quickly 'flip' lenses into or out of a view path in agreement with particular view conditions.

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In some versions, flip-up sunglasses are arranged to be coupled to and cooperate with conventional eyeglasses having optically powered lenses. For example, inventor Russel T. Hall puts forth a design of flip-up sunglasses which have a clip on mechanism which couples the sunglasses to normal eyeglasses. There are many alternative versions in the art; some with particularly interesting features are described below. Indeed most systems are arranged as sunglasses made to cooperate with conventional eyeglasses.

However, it is important to note that a completely different class of removable sunglasses exists where there is no powered optical lenses. Rather, there is a darkened lens or lens set which may be easily moved out of the user's view path to leave only clear space between a user's eyes and the scene being viewed. One type of such system is illustrated by very novel design and invention taught in U.S. Patent 5,719,655 assigned to Nike, Inc. of Beaverton, Oregon. A lens held by a frame without traditional temples is arranged with complementary magnetic element pairs which may be fastened to a user's head via adhesives. To remove the sunglasses for a clear view, a user simply breaks the magnetic bond between magnet pairs.

Another feature of flip-up sunglasses important to users of such devices is aesthetic appearance with regard to concealing hinging apparatus. Hinges which are readily visible tend to make glasses look bulky and clumsy. Accordingly, it is important to provide functional designs which respect desirable aesthetic properties of eyewear in commercial versions of sunglasses. The patented design of Shelton et al for "Eyeglasses With Flip-Up Lenses" presented as U.S. Patent D294,950 shows one particularly neat way of combining a hinge with a glasses frame.

Where sunglasses lenses are to be combined with corrective eyeglasses, addition inventive arrangements and designs have been advanced. Of particular interest, "A Detachable Sunglasses with Magnets" is presented in U.S. Patent 5,642,177 assigned to Sunreeve Company of Japan. These glasses include a sunglasses type lens set which may be coupled to a conventional corrective lens set via magnetic elements. When it is desirable to wear corrective lenses without darkened lenses, the sunglasses portion is removed, folded and placed in a convenient case. Although the sunglasses portion is provided a foldable mechanism, this arrangement is not easily used in sporting events which require one to switch the sunglasses quickly and repeatedly in a short period of

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time. In addition, since the sunglasses portion is totally removable from its mate, there is potential for complete separation and inadvertent loss.

A similar and very clever design which utilizes magnets is illustrated by U.S. Patent 6,053,611. Again, sunglasses lenses are removable from corrective lenses. While in place, the sunglasses lenses are held by magnetic forces provided by magnets in the bridge portion of the convention glasses frames.

A second and similar invention taught by the same teacher Mr. Ku of Taiwan is presented as U.S. Patent 5,975,691. This arrangement includes magnetic elements on hinged pieces which allow magnets to become better aligned and coupled with one another. In this manner, preferred coupling is achieved between the removable sunglasses element and the primary eyewear frame.

Finally, an interesting arrangement of a flip-up sunglasses with a magnetic element is presented as the invention of U.S. patent 4,196,981 granted April 8, 1980. In this arrangement of sunglasses without corrective lenses, a magnetic element is configured as the core of a two part hinge. The second portion of the two part hinge is made of ferrous material which is highly affected by magnetic fields produced by the magnet. Although the arrangement is a curious one, it remains one without explanation as to how the magnetic arrangement tends to operate to cause the outcome desired. Experts in magnetics may challenge the notion that the magnetic arrangement tends to hold the lens frame in either of its two terminal positions or in any position therebetween.

In general, flip-up lenses of the art tend to suffer additional problems. Typically, a flip-up lens arrangement relies on a plurality of détentes arranged in conjunction with a hinge to hold a lens or lenses in a flipped-up position and sometimes in a down position. With arrangements like these, a user has to push the lens past the détente and into a position where the lens to be held.

In other versions, a mechanical interlocking clip is used to hold a flip-up lens to a conventional pair of corrective eyeglasses. These clips are sometimes difficult to operate in particular they may be difficult to release as they tend to be quite small and fragile.

Notwithstanding, very novel apparatus have been discovered which may be characterized as eyewear, particularly to flip-up sunglasses having a magnetic seating feature. While the systems and inventions of the art are designed to achieve particular

goals and objectives, some of those being no less than remarkable, these inventions have limitations which prevent their use in new ways now possible. These inventions of the art are not used and cannot be used to realize the advantages and objectives of the present invention.

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SUMMARY OF THE INVENTION

Comes now, Jeffrey C. Herold, Brian Tostado, and Satoshi Haneda with inventions of sunglasses type eyewear including devices having a spring loaded flip-up tinted lens portion with a magnetic holding mechanism.

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Apparatus of the present inventions include a frame fashioned as eyewear with conventional temple elements and a nose bridge. However, optically corrective lenses may be omitted. A flip-up portion including tinted lenses is arranged and coupled to the frame in a special manner. The coupling includes a spring loaded hinge whereby the spring applies a force to the flip-up portion motivating it to rotate to a flipped-up position. In addition, the coupling includes a magnetic seating means. When the flip-up portion is pushed into a down position, magnets on the frame and flip-up portions make contact and cause the flip-up portion to remain seated in the down position. A user only has to break the contact between magnets to release the flip-up portion. This allows one to apply slight pressure anywhere on the flip-up member to cause it to release and advance to a flipped-up position. The combination of a spring loaded element with a magnetic seat in flip-up eyewear is unique and described in detail herefollowing.

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Objectives of the Invention

It is a primary object of the invention to provide novel eyewear having high performance flip-up features.

It is an object of the invention to provide sunglasses eyewear having a magnetic seat.

It is an object of the invention to provide flip-up eyewear with a spring loaded hinge and a magnetic seat.

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A better understanding can be had with reference to detailed description of preferred embodiments and with reference to appended drawings. Embodiments

presented are particular ways to realize the invention and are not inclusive of all ways possible. Therefore, there may exist embodiments that do not deviate from the spirit and scope of this disclosure as set forth by the claims, but do not appear here as specific examples. It will be appreciated that a great plurality of alternative versions are possible.

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BRIEF DESCRIPTION OF THE DRAWING FIGURES

These and other features, aspects, and advantages of the present invention will become better understood with regard to the following description, appended claims and drawings where:

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Figure 1 is a perspective view of eyewear of the inventions;

Figure 2 is a top-down view of the two major members of apparatus of the inventions;

Figure 3 illustrates a top-down view of an alternative version of two major members of apparatus of the inventions;

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Figure 4 shows a flip-up member in an up terminal position; and Figure 5 is a straight on front view to illustrate a well hidden frame member.

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PREFERRED EMBODIMENTS OF THE INVENTION

In accordance with each of the preferred embodiments of the invention, there is provided sunglasses eyewear apparatus having a flip-up feature with a magnetic seat. It will be appreciated that each of the embodiments described may include an apparatus that an apparatus of one preferred embodiment may be different than an apparatus of another embodiment.

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Apparatus of the inventions are primarily comprised of two major portions. A first portion is herein known as a 'frame' member. A second portion is herein known as a 'flip-up' member. The frame member is connected to and coupled with the flip-up member by way of a hinge or hinges whereby the flip-up member may be moved from the frame member in a rotational sense. In preferred versions, the hinge is loaded with a spring which applies a force on the flip-up member which encourages it to rotate into a 'flipped-up' position or an up terminal position. To maintain the flip-up member in a down terminal position, a mechanism is arranged to work against the spring forces. A

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magnet or magnets is/are provided to hold the flip-up member to the frame while the flip-up member is in partial contact with the frame member. When contact is broken, even by a small amount, the flip-up portion moves under influence of the spring to an up terminal position and is held there out of the user's optical view path.

The inventions will be better understood with reference to the drawings and in particular to Figure 1 which illustrates a perspective view of eyewear of the inventions. A flip-up member is comprised of a shaded lens 1 contained and held within a lens periphery support 2 which is constructed of metallic material. An identical lens and support is connected to the first by way of a bridge element 3. A frame member is comprised of a similar bridge 4, cross elements 5, and temple elements 6. The flip-up member is shown in the drawing is a down terminal position and closely coupled to the frame member. Because the profiles of the flip-up member and frame member are quite similar, it is difficult to perceive the apparatus as being two discrete members and will appear to be only one. This is particularly true in a front-on view.

Figure 2 is a top down view which allows one to appreciate the profile of the frame member and the flip-up member which for a mating pair. The mating pair allow the two members to be coupled in very close proximity to reduce the bulk and cross section. This is particularly well achieved in view of the recessed portion which accommodates a hinge. Flip-up member 21 having a bridge 22 sets tightly against frame member 23 which includes the recessed portion. A hinge is formed between the frame member and the flip-up member by way of receiving tabs 24 and cylinder 25. A pin (not shown) finally couples these elements to form an hinge in a common manner.

Figure 3 shows a special version sometimes known as a 'wrap-around' eyewear. In this version, a flip-up member 31 includes a bridge 32. Frame member 33 has receiving tabs similar to the prior version, however the recessed portion is asymmetric. A recessed is formed by the curved portion 35 of the frame on a first side but a second side is omitted. The wrap style of the frame permits this omission at 36 as the frame is preferable formed to be drawn back towards the temple. Thus, in accordance with the invention, a recess to conceal a hinge may be formed in a more traditional style eyewear and it may be formed as shown in wrap-style eyewear as well.

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Figure 4 illustrates rotational motion of a flip-up member coupled to a frame member about a rotational axis. Sunglasses lens 41 held in support 42 is rotatably coupled to frame cross element 43. Careful examination of the figure shows that the bridge 44 of the flip-up member moves away 45 from the bridge of the frame member as the flip-up member is rotated upwardly towards an up terminal position. Thus, Figure 4 illustrates a flip-up member making a transition from a down terminal position to an up terminal position; the flip-up member shown between those positions.

One important aspect of the invention is to provide eyewear which is attractive in appearance. Accordingly, it is useful to hide elements of the frame and flip-up members or to make them appear as a single piece. This can be more readily appreciated from a straight on view shown in Figure 5. Lens 51 and support 52 entirely hide the frame member which sets behind the flip-up member. It is easy to see that the bridge 53 of the flip-up member and the bridge of the frame member appear as a single bridge. Similarly, the lens peripheral support element 52 is shaped in a fashion to cooperate with the frame cross member 54 whereby it is completely covered in a front-on view as the frame lies behind the flip-up member while it is in a down terminal position, i.e. a seated position. Magnets, magnets sets, or magnets pairs are also positioned where they cannot be seen behind the lenses.

The examples above are directed to specific embodiments which illustrate preferred versions of devices and methods of the invention. In the interests of completeness, a more general description of devices and the elements of which they are comprised as well as methods and the steps of which they are comprised is presented herefollowing.

One will now fully appreciate how sunglasses type eyewear having a spring loaded hinge and magnetic seat make a useful and valuable apparatus. Although the present invention has been described in considerable detail with clear and concise language and with reference to certain preferred versions thereof including the best mode anticipated by the inventor, other versions are possible. Therefore, the spirit and scope of the invention should not be limited by the description of the preferred versions contained therein, but rather by the claims appended hereto.

In the United States Patent and Trademark Office

Applicant Jeffrey Herold and Brian Tostado

Title: Eyewear Frame with Recessed Portion

Claims

What is claimed is:

- 1) Apparatus arranged as eyewear comprising a flip-up member coupled to a frame member about a pivot axis whereby said flip-up member freely rotates from an up terminal position to a down terminal position, said flip-up member being held in the down terminal position to said frame member by magnetic forces, said frame member including a recessed portion to accommodate said pivot axis whereby the frame member and flip-up member form a mating pair.
- 2) Apparatus of claim 1, comprising a hinge coupling between said frame member and said flip-up member, said hinge coupling being mechanically loaded by a spring.
- 3) Apparatus of claim 2, said spring being arranged and biased to advance the flip-up member towards the up terminal position.
- 4) Apparatus of claim 3, said frame member being further comprised of at least one magnet element arranged to hold said flip-up member against the force of the spring.
- 5) Apparatus of claim 1, said mating pair form a wrap style frame set whereby the general contour of the apparatus approximates that of a human face.

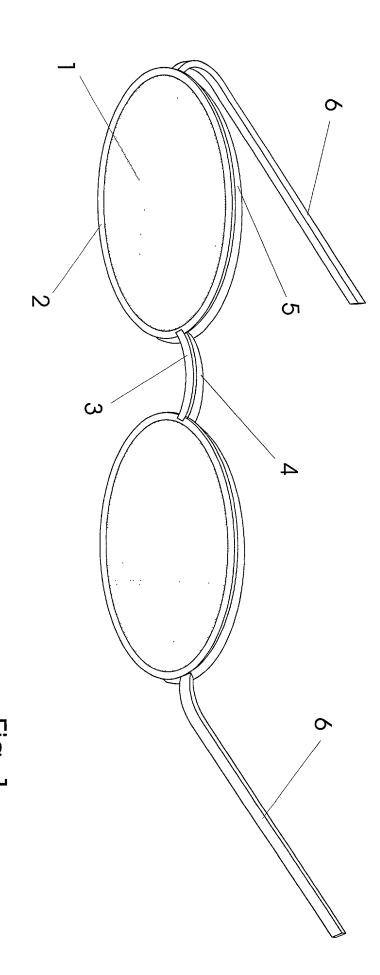
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Applicant Jeffrey Herold and Brian Tostado

Title: Eyewear Frame with Recessed Portion

Abstract

Eyewear characterized as flip-up sunglasses include a combination of a spring loaded hinge and a magnetic seat. The spring loaded hinge relieves a user the task of properly placing a flip-up portion in a holding mechanism. In combination with the spring, the magnetic seat allows the flip-up lenses to be held against the spring force and provides a simple release action which may be quickly accomplished by merely breaking a magnetic contact bond. As such, the action of flipping up and flipping down a sunglasses lens or lenses becomes comfortable and simple. In addition, a specially arranged recessed lens frame portion accommodates a hinge whereby flip-up portion and the frame portion together form a seat whereby the frame and flip-up portions are closely coupled. The glasses are particularly useful for users who frequently switch between looking into shadows and lighted areas which would otherwise require removing sunglasses and replacing them.



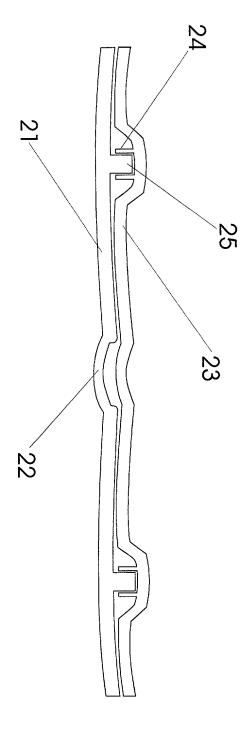


Fig. 2

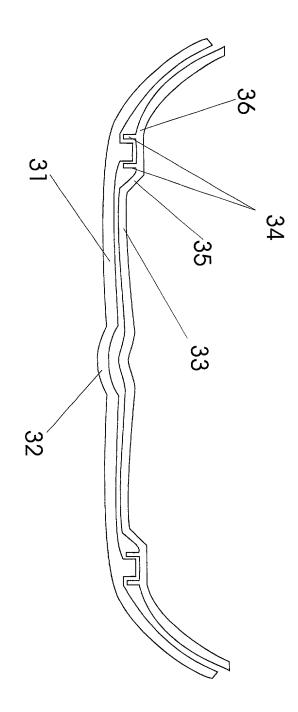
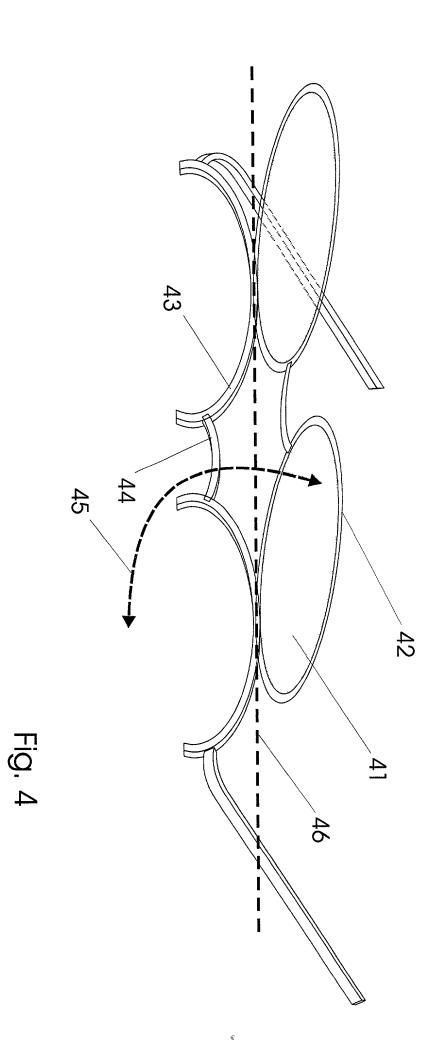


Fig. 3



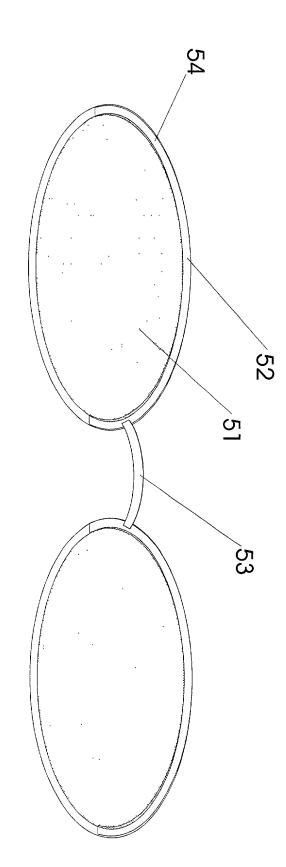


Fig. 5

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ADDITIONAL INVENTOR(S) Supplemental Sheet Page _ 1 of _ 2

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Given Name (first and middle [if any])					Family Name or Surname						
Brian				Tostado							
Inventor's Signature						Date					
Residence: City	Irvine	State	CA	C	ountry	US		Citizenshi	p	US	
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